

AMENDMENT TO THE SPECIFICATION

Please amend the description starting at line 3 and continuing to line 17 of page 91 as follows.

pTnMOD (CHOVep-prepro-ent-hGH-CPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 4725 Chicken Ovalbumin enhancer taken from GenBank accession # S82527.1, bp 1 – 675

Bp 4732 – 6067 Chicken Ovalbumin promoter taken from GenBank accession # J00899-M24999, bp 1-1336

Bp 6074 – 6245 Capsite/Prepro taken from GenBank accession # X07404, bp 563 – 733

Bp 6252 – 6400 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6401 – 7054 Human growth hormone taken from GenBank accession # V00519, bp 1-654

Bp 7061 – 7468 Conalbumin polyA taken from GenBank accession # Y00407, bp 10651-11058

Bp 7470 – 11069 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 19 of page 91 and going to line 34 of page 91 as follows.

pTnMOD (CMV-CHOVg-ent-ProInsulin-synPA) (SEQ ID NO:42)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5702 – 6855 Chicken ovalbumin gene taken from GenBank accession # V00383, bp 66-1219

Bp 6862 - 7011 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 7012 – 7272 Human Proinsulin taken from GenBank accession # NM000207, bp 117-377

Bp 7273 – 7317 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and pGWIZ (Gene Therapy Systems)

Bp 7318 - 7670 Synthetic polyA from the cloning vector pGWIZ (Gene Therapy Systems), bp 1920-2271

Bp 7672 – 11271 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 1 of page 92 and continuing to line 14 of page 92 as follows.

pTnMOD (CMV-prepro-ent-hGH-CPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5701 - 5871 Capsite/Prepro taken from GenBank accession # X07404, bp 563 – 733

Bp 5879 - 6027 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6028 – 6681 Human growth hormone taken from GenBank accession # V00519, bp 1-654

Bp 6688 – 7095 Conalbumin polyA taken from GenBank accession # Y00407, bp 10651-11058

Bp 7097 – 10696 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 16 of page 92 and continuing to line 30 of page 92 as follows.

pTnMOD (CMV-prepro-ent-ProInsulin-synPA)

Bp 1 – 4045 from vector pTnMOD ~~PTnMCS~~, bp 1 - 4045

Bp 4051 – 5695 CMV promoter/enhancer taken from vector pGWIZ (Gene therapy systems), bp 230-1864

Bp 5701 - 5871 Capsite/Prepro taken from GenBank accession # X07404, bp 563 - 733
Bp 5879 - 6027 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site
Bp 6028 - 6288 Human Proinsulin taken from GenBank accession # NM000207, bp 117-377
Bp 6289 - 6333 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and pGWIZ (Gene Therapy Systems)
Bp 6334 - 6685 Synthetic polyA from the cloning vector pGWIZ (Gene Therapy Systems), bp 1920-2271
Bp 6687 - 10286 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716-7315

Please amend the description starting at line 18 and continuing to line 33 of page 93 as follows.

pTnMOD(Chicken OVep+prepro+ENT+proins+syn polyA)

Bp 1 - 4045 from cloning vector pTnMOD ~~PTnMCS~~, bp 1 - 4045
Bp 4051 - 4725 Chicken Ovalbumin enhancer taken from GenBank accession # S82527.1 bp 1-675
Bp 4732 - 6067 Chicken Ovalbumin promoter taken from GenBank accession # J00895-M24999 bp 1-1336
Bp 6074 - 6244 Cecropin cap site and Prepro, Genbank accession # X07404 bp 563-733
Bp 6251 - 6400 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site
Bp 6401 - 6661 Human proinsulin GenBank Accession # NM000207 bp 117-377
Bp 6662 - 6706 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)
Bp 6707 - 7058 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems) bp 1920 - 2271
Bp 7060 - 10659 from cloning vector pTnMOD ~~PTnMCS~~, bp 3716 - 7315

Please amend the description starting at line 1 of page 94 and continuing to line 22 of page 94 as follows.

pTnMOD(Quail OVep+OVg'+ENT+proins+syn polyA)

Bp 1 – 4045 from cloning vector pTnMOD ~~pTnMCS~~, bp 1 - 4045

Bp 4051 – 4708 Quail Ovalbumin enhancer: 658 bp sequence, amplified in-house from quail genomic DNA, roughly equivalent to the far-upstream chicken ovalbumin enhancer, GenBank accession # S82527.1, bp 1-675. (There are multiple base pair substitutions and deletions in the quail sequence, relative to chicken, so the number of bases does not correspond exactly.)

Bp 4715 – 6080 Quail Ovalbumin promoter: 1366 bp sequence, amplified in-house from quail genomic DNA, roughly corresponding to chicken ovalbumin promoter, GenBank accession # J00895-M24999 bp 1-1336. (There are multiple base pair substitutions and deletions between the quail and chicken sequences, so the number of bases does not correspond exactly.)

Bp 6087 – 7285 Quail Ovalbumin gene, EMBL accession # X53964, bp 1-1199. (This sequence includes the 5'UTR, containing putative cap site bp 6087-6139.)

Bp 7292 – 7441 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 7442 – 7702 Human proinsulin GenBank Accession # NM000207 bp 117-377

Bp 7703 – 7747 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)

Bp 7748 – 8099 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems)
bp 1920 - 2271

Bp 8101 – 11700 from cloning vector pTnMOD ~~pTnMCS~~, bp 3716 - 7315

Please amend the description starting at line 24 of page 94 and continuing to line 12 of page 95 as follows.

pTnMOD(Quail OVep+prepro+ENT+proins+syn polyA)

Bp 1 – 4045 from cloning vector pTnMOD ~~pTnMCS~~, bp 1 - 4045

Bp 4051 – 4708 Quail Ovalbumin enhancer: 658 bp sequence, amplified in-house from quail genomic DNA, roughly equivalent to the far-upstream chicken ovalbumin enhancer, GenBank accession #S82527.1, bp 1-675. (There are multiple base pair substitutions and deletions in the quail sequence, relative to chicken, so the number of bases does not correspond exactly.)

Bp 4715 – 6080 Quail Ovalbumin promoter: 1366 bp sequence, amplified in-house from quail genomic DNA, roughly corresponding to chicken ovalbumin promoter, GenBank accession # J00895-M24999 bp 1-1336. (There are multiple base pair substitutions and deletions between the quail and chicken sequences, so the number of bases does not correspond exactly.)

Bp 6087 – 6257 Cecropin cap site and Prepro, Genbank accession # X07404 bp 563-733
Bp 6264 – 6413 Synthetic spacer sequence and hairpin loop of HIV gp41 with an added enterokinase cleavage site

Bp 6414 - 6674 Human proinsulin GenBank Accession # NM000207 bp 117-377

Bp 6675 - 6719 Spacer DNA, derived as an artifact from the cloning vectors pTOPO Blunt II (Invitrogen) and gWIZ (Gene Therapy Systems)

Bp 6720 - 7071 Synthetic polyA from the cloning vector gWIZ (Gene Therapy Systems)
bp 1920 - 2271

Bp 7073 – 10672 from cloning vector ~~pTnMOD~~ ~~pTnMCS~~, bp 3716 – 7315

In Appendix A, at page 140, line 61 to page 143, line 46, please delete the paragraph under the heading “SEQ ID NO:43 (pTnMOD(Chicken OVep+OVg'+ENT+proins+syn polyA))” and replace with the following paragraph.

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1  ctgacgcgcc  ctgtagcgcc  gcattaagcg  cggcgggtgt  ggtgggttacg  cgcacgctga
61  ccgctacaet  tgcacgcgcc  ctgacgcgcc  ctcttttcgc  tttcttcctc  tcctttctcg
121  ccacgtttgc  cgccatcaga  ttggctattg  gccattgcat  acgttgtatc  catatcataa
181  tatgtacatt  tataattggt  catgtccaac  attaccgcca  tgttgacatt  gattattgac
241  tagttaataa  tagtaataca  ttacgggggt  attagtccat  agcccatata  tggagttccg
301  cgttacataa  cttaacggtg  atggcccgcc  tgggtgaccg  cccaacgacc  cccgcccat
361  gacgtcaata  atgacgtatg  ttcccatagt  aacgcccaata  gggactttcc  attgacgtca
421  atgggtggag  tatttaagg  aaactgccca  ctgtggcagta  catcaagtgt  atcatatgcc
481  aagtaacgcc  cctattgacg  tcaatgacgg  taaatggccc  gcctggcatt  atgccagta
541  catgacctta  tgggactttc  ctacttgcca  gtacatctac  gtattagtca  tcgtattac
601  catgggtgatg  cggttttggc  agtacatcaa  tggcgctgga  tagcggtttg  actcacgggg
661  atttccaaagt  ctccacccca  ttgacgtcaa  tgggagtttg  ttttggcacc  aaaatacag
721  ggactttcca  aaatgtcgta  acaactcgcg  ccatttgacg  caaatggggc  gtaggcggtg
781  acggtgggag  gtctatataa  gcagagctcg  tttagtgaac  cgctcagatcg  cctggagacg
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 1021 ataacacccc gcttcccttat gctatagggt atgggtatagc tttagcctata ggtgtgggtt
 1081 attgaccatt attgaccact cccctatttg tgacgatact ttccattact aatccataac
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 1201 tgacagggac tctgtatttt tacaggatgg ggttccattt attatttaca aatttcacata
 1261 tacaacaacg cgttcccccg tgccccgagt ttttattaaa catagcgttg gatctccacg
 1321 tgaactctcgg gtacgtgttc cggacatcgg ctctctcccg gtacgcgcg gacttccaca
 1381 tccgagccct ggtcccatgc ctccagcggc tcatggtcgc tcggcagctc cttgtcccta
 1441 acagttggag ccagacttag gcacagcaca atgcccacca cccactgtgt gcgcacaaag
 1501 gccgtggcgg tagggtatgt gtctgaaatg gagcgtggag attgggctcg caccgctgac
 1561 ggaacgtgaa gaactaaggc agcgccagaa gaagatgcag gcagctgagt ttgtgtattc
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8461 cagtttgga caagagtc caattataa acgtggact caacgtcaa gggcgaaaa
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8761 attttatgct atttaccg gctttttatt gagcttgaaa gataaataaa atagatagg
8821 tttatttgaa gctaaatctt cttttatgta aaaaatgcc tctttgggta tcaaggagg
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9121 cctgttaaa cacttgcgt atgactcttt gtttggatag acatcactcc ctgtaatgca
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9301 gtttttctgc ccatttagtg gctattcttc ctgccacaaa ggtctggaat cgtattctgt
9361 aagaccagg acccgtaatg aaaagccaac catcatgcta ttcatcatca cgtattctgt
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